



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/NS/W.No.15/CSR-05/334g/CEMENT/2017-18

Date: 15.05.2017

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. N. Shivananda, No.35, 2 nd Cross, 1 st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of Work	:	Improvements & Construction of CC roads from Kempegowda Nagara -1 st , 2 nd , 3 rd Main & SM Road, Nr. Nrupatunga Road, Masidi Road, Bharath Talkies Road & other road link to NH-4 Road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	:	Cement
Sample Received on	:	12.05.2017
Period of Testing	:	12.05.2017 to 15.05.2017



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

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Job No.: CTCE/BBMP/NS/W.No.15/CSR-05/334g/SAND-Gradation/2017-18

15.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N. Shivananda, No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of Work	: Improvements & Construction of CC roads from Kempegowda Nagara 1st,2nd,3rd Main & SM Road, Nrupatunga Road, Masidi Road, Bharath Talkies Road & other road link to NH-4 Road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 12.05.2017
Date of Testing	: 15.05.2017



Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.50	90-100	90-100	90-100	95-100
2.36	76.50	60-95	75-100	85-100	95-100
1.18	55.50	30-70	55-90	75-100	90-100
600 Micron	25.50	15-34	35-59	60-79	80-100
300 Micron	13.00	5-20	8-30	12-40	15-50
150 Micron	6.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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 ತಾಂತ್ರಿಕ ನಿರ್ದೇಶಕಿ
 ಸಿವಿಲ್-ಟೆಕ್ ಕನ್ಸಲ್ಟಂಟ್ಸ್ & ಎಂಜಿನೀಯರ್ಸ್
 ಬೆಂಗಳೂರು

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15.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N. Shivananda, No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of Work	: Improvements & Construction of CC roads from Kempegowda Nagara 1st,2nd,3rd Main & SM Road, Nrupatunga Road, Masidi Road, Bharath Talkies Road & other road link to NH-4 Road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 12.05.2017
Date of Testing	: 15.05.2017



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.90	95-100	85-100
20	36.90	30-70	0-20
10	16.50	10-35	0-5
4.75	3.50	0-5	-

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Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/NS/W.No.15/CSR-05/334g/Cube/2017-18

14.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N. Shivananda, No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte,
* Name of the work	: Improvements & Construction of CC roads from Kempegowda Nagara 1st,2nd,3rd Main & SM Road, Nrupatunga Road, Masidi Road, Bharath Talkies Road & other road link to NH-4 Road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 14.06.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.05.2017	14.06.2017	8.160	475.5	21.13
2	17.05.2017	14.06.2017	8.235	492.2	21.88
3	17.05.2017	14.06.2017	8.305	502.9	22.35

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14.06.2017

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* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N. Shivananda, No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte,
* Name of the work	: Improvements & Construction of CC roads from Kempegowda Nagara 1st,2nd,3rd Main & SM Road, Nrupatunga Road, Masidi Road, Bharath Talkies Road & other road link to NH-4 Road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 14.06.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.05.2017	14.06.2017	8.190	474.6	21.09
2	17.05.2017	14.06.2017	8.290	490.5	21.80
3	17.05.2017	14.06.2017	8.356	506.5	22.51

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K. S. Srinivasan
Managing Director
Civil-Tech Consultants & Engineers
Bangalore

VIDYARANI P.K.
Technical Manager



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* Reference	: BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 15.06.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.05.2017	15.06.2017	8.192	482.3	21.44
2	18.05.2017	15.06.2017	8.265	506.5	22.51
3	18.05.2017	15.06.2017	8.315	512.7	22.79

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* Reference	: BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 15.06.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.05.2017	15.06.2017	8.268	478.3	21.26
2	18.05.2017	15.06.2017	8.327	506.5	22.51
3	18.05.2017	15.06.2017	8.405	516.2	22.94

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* Reference	: BBMP/DZ/AEE/TDSD/PR/68/2017-18 Dated: 12.05.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 16.06.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.05.2017	16.06.2017	8.099	474.9	21.11
2	19.05.2017	16.06.2017	8.192	502.5	22.33
3	19.05.2017	16.06.2017	8.280	512.6	22.78

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Sample Received on	: 16.06.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.05.2017	16.06.2017	8.280	485.5	21.58
2	19.05.2017	16.06.2017	8.328	493.6	21.94
3	19.05.2017	16.06.2017	8.415	512.8	22.79

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